: iisqooymi slargethii

Fie 2. 9: [1,7 8) - 20,7 8),
$$g(x) = \frac{1}{4}$$
, $g(x) = \frac{1}{4}$

(a+,13) & (x) g ≥ (x) & mouse

From
$$Q(X) \leq Q(X)$$
, $(X) \propto C[X, + \infty)$

$$\int_{1}^{\infty} Q(X) dX = Qim \int_{1}^{\infty} \frac{1}{X^{i}} dX = Qim \left(\frac{X}{-i+1}\right)$$

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$$= Sim \left(-\frac{1}{3d^3} + \frac{1}{3}\right) = \frac{1}{3} \in \mathbb{R}$$

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$$\int_{\infty}^{2} \frac{\mathcal{Z}_{2}-1}{\sqrt{1-1}} \, d\mathcal{Z}$$

ुद्धः

$$\lim_{x \to +\infty} \frac{2(x)}{2} = \lim_{x \to +\infty} \frac{x^{r}}{x^{r-1}} = 1 \in (0, +\infty)$$

$$\int_{2}^{\infty} g(x) dx \sim \int_{2}^{\infty} e^{(x)} dx$$

$$\int_{2}^{\infty} g(x) dx = \lim_{d \to \infty} \int_{2}^{d} \frac{1}{x^{1}} dx = \lim_{d \to +\infty} \left(\frac{x^{-r+1}}{-r+1}\right)^{2}$$

$$= \lim_{d \to +\infty} \left(-\frac{1}{3d^{3}} + \frac{1}{3 \cdot 8}\right) = \frac{1}{2r} \in \mathbb{R}$$

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$$32. \quad x \in [x, +\infty) = x + (0, 1] \subset (0, \frac{1}{2}) = x + (0, 1] \subset (0, \frac{1}{2}) = x + (0, 1] \subset (0, \frac{1}{2}) = x + (0, 1) = x +$$

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$$\frac{1}{p}$$
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$$\frac{1}{2} = \frac{1}{2}$$

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$$0) \int_0^\infty e^{-\frac{x^2}{2}} dx =$$

$$x^2 = x = \sqrt{x} = \sqrt{x}$$

$$B(x^2A) = \begin{cases} x - 1 & x - 1 \\ x - 1 & y - 1 \\ y - 1 & y - 1 \end{cases}$$

$$= \int_{0}^{\infty} e^{-\frac{1}{2}x} dx = \frac{1}{2} \int_{0}^{\infty} e^{-\frac{1}{2}x} dx = \frac{1}{2} \int_{0}^{\infty} e^{-\frac{1}{2}x} dx = \frac$$

$$\int_{-\infty}^{\infty} -\frac{\pi}{3} dx = 11$$

$$= \frac{1}{3} \int_{0}^{\infty} x^{\frac{1}{6} - \frac{2}{3}} e^{-x} dt = \frac{1}{3} \int_{0}^{\infty} x^{-\frac{1}{2}} e^{-x} dt =$$

$$= \frac{1}{3} \int_{0}^{\infty} t^{\frac{1}{2}-1} = \frac{$$

a)
$$\int_{0}^{2} \frac{\sqrt{2-x}}{x^{2}} dx = \int_{0}^{2} \frac{\sqrt{2}\sqrt{1-\frac{x}{x}}}{x^{2}} dx$$

$$= \int_{0}^{1} \frac{(t^{2})^{2}}{\sqrt{12}} \cdot 2 dt = \frac{8}{\sqrt{2}} \int_{0}^{1} t^{2} (1-t)^{-\frac{1}{2}} dt =$$

$$\frac{2}{3}$$

$$= \frac{8}{\sqrt{2}} \int_{0}^{1} t^{3-1} (1-t)^{\frac{1}{2}-1} dt = \frac{8}{\sqrt{2}} B(3,\frac{1}{2})$$

$$B(3,\frac{7}{7}) = \frac{T_1(3)T(\frac{7}{7})}{T_1(3+\frac{7}{7})} = \frac{T_1(3+\frac{7}{7})}{5! \cdot \sqrt{M}}$$

$$\Gamma(3+\frac{1}{2}) = \Gamma(4+2+\frac{1}{2}) = (2+\frac{1}{2}) \cdot \Gamma(2+\frac{1}{2}) = \frac{5}{2} \cdot \Gamma(4+4+\frac{1}{2})$$

$$= \frac{5}{2}(4+\frac{1}{2}) \cdot \Gamma(4+\frac{1}{2}) = \frac{5}{2} \cdot \frac{3}{2} \cdot \frac{1}{2} \cdot \Gamma(\frac{1}{2}) = \frac{45}{8} \cdot \sqrt{17}$$

$$B(3,\frac{1}{2}) = 2 \cdot \sqrt{17} = \frac{16}{15}$$

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$$\frac{\Gamma\left(\frac{\zeta}{\zeta}\right) = \frac{\Gamma}{\zeta}\left(\frac{\zeta}{\zeta}\right) = \frac{3}{\zeta} \quad \frac{\Gamma\left(\frac{3}{\zeta}\right)}{\zeta} \quad \frac{\Gamma\left(\frac{1}{\zeta}\right) = \frac{3}{\zeta}}{\zeta} \quad \frac{\Gamma\left(\frac{1}{\zeta}\right) = \frac{1}{\zeta}}{\zeta} \quad \frac{\Gamma\left(\frac{1}{\zeta}\right) = \frac{1}$$

Steames A is
$$(R)$$
 $F \ni A := [r, \varepsilon] \times [s, v-1] = A$

$$\mathcal{Z} = (R, x) \in \mathcal{Z} \times [s, v-1] = X$$

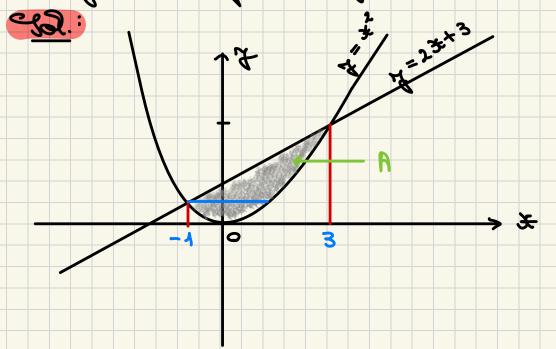
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$$\int_{A}^{A} f(x^{2}x^{2}) dx dx^{2} = \int_{-1}^{-1} \left(\int_{2}^{3} x dx^{2} \right) dx =$$

$$= \int_{-1}^{-1} (3x)^{\frac{1}{4}=4} dx = \int_{-1}^{2} 2(4-3) dx = \frac{x^{2}}{2} \Big|_{x=-1}^{x=2}$$



Determinam puette de interestie dintre
$$y=x^2$$
 zi $y=2x+3$.

$$\mathcal{Z}_{5} = \frac{3}{5-4} = -1 = 2$$

The d,
$$\beta: [-1,3] \to \mathbb{R}$$
, $\alpha(x) = x^2$; $\beta(x) = \lambda x + 3$
of β cond.
 $A \in \mathcal{J}(\mathbb{R}^2)$ gi A compactor

The $g: A \to \mathbb{R}$, $g(x,y) = x$
 $f(x,y) = x$

$$\int_{A}^{A} 3(x^{2}) dx dx = \int_{A}^{1} \left(\int_{A}^{-\frac{1}{2}} 4 dx \right) dx =$$

$$= \int_{1}^{2} \frac{\pi}{4\pi} |_{x=4}^{x=-\frac{1}{2}} dx = \int_{1}^{2} \frac{1}{4\pi} |_{x} dx = \int_{1}^{2} \frac{1}{3} + \frac{1}{3} dx$$

$$= \left(\frac{3}{4} + \frac{3}{4}\right) \Big|_{\frac{3}{4} = 0}^{\frac{1}{4}} = \frac{1}{4} + \frac{3}{4} = \frac{3+4}{4} = \frac{1}{4} = \frac{1}{4}$$

marginita de ==0, 7=1, 7= 32, ==7

$$= \frac{(3\sqrt{2})^3}{3} - \frac{1}{3} = \frac{2}{3} - \frac{1}{3} = \frac{1}{3} \square$$

$$OB: \frac{A-A_0}{A-A_0} = \frac{x^{B}-x^{O}}{x^{-x^{O}}} \stackrel{(=)}{=} OB: \frac{A}{A} = \frac{A}{x} \stackrel{(=)}{=} OB: \frac{A}{A} = -x$$

$$BC: \overline{A}_{-AB} = \overline{x}_{-\overline{x}B} = \overline{A}_{+1} = \overline{A}_{-1}$$

Education A, (PA) J. SA